

Claims

- [c1] 1. A back light module, comprising:
a frame;
a reflective plate set up at a bottom section of the frame;
at least a light source set up within the frame, wherein
the light source is positioned above the reflective plate;
a caved transparent plate set up over the frame, wherein
the caved transparent plate is positioned above the light
source;
a diffusion plate set up over the caved transparent plate,
wherein a gap is formed between the diffusion plate and
the caved transparent plate; and
a plurality of optical films set up over the diffusion plate.
- [c2] 2. The back light module of claim 1, wherein the gap
from the diffusion plate to the caved transparent plate
has a height between 2 to 5 millimeters.
- [c3] 3. The back light module of claim 1, wherein material
constituting the caved transparent plate comprises a
transparent acrylic material.
- [c4] 4. The back light module of claim 1, wherein the module
further comprises a plurality of support elements set up

between the caved transparent plate and the diffusion plate.

[c5] 5. The back light module of claim 1, wherein the light source comprises at least a lamp tube or a light-emitting diode.

[c6] 6. The back light module of claim 1, wherein the optical films comprise light enhancing plates or prism plates.

[c7] 7. A back light module, comprising:
a frame;
a reflective plate set up at a bottom section of the frame;
at least a light source set up within the frame, wherein the light source is positioned above the reflective plate;
a diffusion plate set up over the frame, wherein the diffusion plate is positioned above the light source;
a caved transparent plate set up over the diffusion plate, wherein a gap is formed between the caved transparent plate and the diffusion plate; and
a plurality of optical films set up over the diffusion plate.

[c8] 8. The back light module of claim 7, wherein the gap from the diffusion plate to the caved transparent plate has a height between 2 to 5 millimeters.

[c9] 9. The back light module of claim 7, wherein a material constituting the caved transparent plate comprises a

transparent acrylic material.

- [c10] 10. The back light module of claim 7, wherein the module further comprises a plurality of support elements set up between the caved transparent plate and the diffusion plate.
- [c11] 11. The back light module of claim 7, wherein the light source comprises at least a lamp tube or a light-emitting diode.
- [c12] 12. The back light module of claim 7, wherein the optical films comprise light enhancing plates or prism plates.